

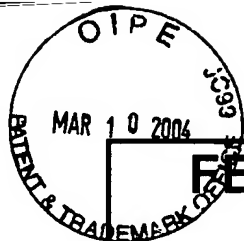


<b>TRANSMITTAL FORM</b> (to be used for all correspondence after initial filing)		<b>Application Number</b>	10/691,384
		<b>Filing Date</b>	October 22, 2003
		<b>First Named Inventor</b>	Stephen P. Oliver
		<b>Group Art Unit</b>	1653
		<b>Examiner Name</b>	
<b>Total Number of Pages in this Submission</b>	7*	<b>Attorney Docket Number</b>	HME/7477.0017

ENCLOSURES (check all that apply)		
<input checked="" type="checkbox"/> Fee transmittal form <input type="checkbox"/> Fee attached	<input type="checkbox"/> Assignment Papers (for an application)	<input type="checkbox"/> After Allowance Communication to Group
<input type="checkbox"/> Amendment <input type="checkbox"/> After Final/ Response <input type="checkbox"/> Affidavits/Declaration(s)	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Licensing Related Papers	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Petition Routing Slip (PTO/SB/69) and Accompanying Petition	<input type="checkbox"/> Proprietary Information
<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Certified copy of Priority Documents	<input type="checkbox"/> Power of Attorney, Revocation, Change of Correspondence Address	<input checked="" type="checkbox"/> Additional Enclosures (identify below)
<input type="checkbox"/> Response to Missing Parts/ Incomplete Application	<input type="checkbox"/> Terminal Disclaimer	1 Foreign Patent Reference 8 Non-Patent References
<input type="checkbox"/> Response to Missing Parts Under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Small Entity Statement	
	<input type="checkbox"/> Request for Refund	
Remarks: * - plus references		

SIGNATURE OF APPLICANT, ATTORNEY OR AGENT	
<b>Firm or Individual Name</b>	Howard Eisenberg, Esq. 2206 Applewood Court Perkasie, Pennsylvania 18944
<b>Signature</b>	
<b>Date</b>	March 8, 2004

CERTIFICATE OF MAILING			
I hereby certify that, on the date shown below, this correspondence is being deposited with the United States Postal Service in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, <input checked="" type="checkbox"/> with sufficient postage as first class mail <input type="checkbox"/> as "Express Mail Post Office to Addressee" - mailing label no. _____			
<b>Type or print name</b>	Howard Eisenberg		
<b>Signature</b>		<b>Date</b>	March 8, 2004



# FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

Complete If Known

Application Number	10/691,384
Filing Date	October 22, 2003
First Named Inventor	Stephen P. Oliver
Examiner Name	
Art Unit	1653
Attorney Docket No.	HME/7477.0017

☒ Applicant claims small entity status. See 37CFR 1.27

TOTAL AMOUNT OF PAYMENT

\$0

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit Card ☐ Money Order ☐ Other ☒ None

☐ Deposit Account

Deposit Account Number

50-1773

Deposit Account Name

Howard Eisenberg

The Commissioner is authorized to: (check all that apply)

☒ Charge fees indicated below ☒ Credit any overpayments

☒ Charge any additional fee(s) during the pendency of this application

☐ Charge any fee(s) indicated below, except for the filing fee to the above-identified deposit account.

## FEE CALCULATION

### 1. BASIC FILING FEE

Large Entity	Small Entity	Fee Description	Fee Paid
Code (\$)	Code (\$)		
1001 770	2001 385	Utility filing fee	
1002 340	2002 170	Design filing fee	
1003 530	2003 265	Plant filing fee	
1004 770	2004 385	Reissue filing fee	
1005 160	2005 80	Provisional filing fee	
SUBTOTAL (1)			\$0

### 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Extra Claims	Fee from below	Fee Paid
45 - 45	**= 0	x 9	= 0
Indep. Claims 8 - 8	**= 0	x 43	= 0
Multiple Dependent			

Large Entity	Small Entity	Fee Description	Fee Paid
Fee Code (\$)	Fee Code (\$)		
1202 18	2202 9	Claims in excess of 20	
1201 86	2201 43	Independent claims in excess of 3	
1203 290	2203 145	Multiple dependent claim, if not paid	
1204 86	2204 43	**Reissue independent claims over original patent	
1205 18	2205 9	*Reissue claims in excess of 20 and over original patent	
SUBTOTAL (2)			\$0

\*\*or number of previously paid, if greater. For reissues, see above.

## FEE CALCULATION (continued)

### 3. ADDITIONAL FEES

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge-late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for ex-parte reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	420	2252	210	Extension for reply within second month	
1253	950	2253	475	Extension for reply within third month	
1254	1,480	2254	740	Extension for reply within fourth month	
1255	2,010	2255	1,005	Extension for reply within fifth month	
1401	330	2401	165	Notice of Appeal	
1402	330	2402	165	Filing a brief in support of an appeal	
1403	290	2403	145	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,330	2453	665	Petition to revive - unintentional	
1501	1,330	2501	665	Utility issue fee (or reissue)	
1502	480	2502	240	Design issue fee	
1503	640	2503	320	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt.	
8021	40	8021	40	Recording each patent assignment per property (times no. of properties) - total assignments 1	
1809	770	2809	385	Filing a submission after final rejection (37 C.F.R. 1.129(a))	
1810	770	2810	385	For each additional invention to be examined (37 CFR 1.129(b))	
1801	770	2801	385	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	
Other fee (specify)					
* Reduced by Basic Filing Fee Paid					
SUBTOTAL (3)					\$0

SUBMITTED BY

Complete (if applicable)

Name (print type)	Howard Eisenberg, Esq.	Registration No.	36,789	Telephone	(215) 453-9237
Signature		Date	March 8, 2004		



Atty Doc. No. HME/7477.0017

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**PATENT APPLICATION EXAMINING OPERATIONS**

In re the Application of :  
Stephen P. Oliver, et al : Group Art Unit: 1653  
  
Serial No. 10/691,384 : Examiner:  
  
Filed: October 22, 2003 : Date: March 8, 2004  
  
For a Patent for :  
STREPTOCOCCUS UBERIS ADHESION  
MOLECULE

**INFORMATION DISCLOSURE STATEMENT  
IN ACCORDANCE WITH 37 CFR §1.98**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Applicants submit herewith copies of patents and publications of which they are aware and which they desire to have considered by the Patent Office in accordance with 37 CFR §1.97. In accordance with 37 CFR §1.97(b)(3), this Information Disclosure Statement is being submitted before the mailing date of a first Office Action on the merits of the above-identified application.

In accordance with 37 CFR §1.97(h), the filing of this Information Disclosure Statement will not be regarded as an admission that any patent or publication or combination of patents referred to herein is, or is considered to be, material to patentability under 37 CFR §1.56(b) unless specifically designated as such.

A list of the patents and publications enclosed herewith is set forth on the attached 3 pages of Information Disclosure Statement by Applicants.

The person making this statement is the attorney who signs below on the basis of the information supplied by the inventor and the information in his file.

Respectfully submitted,



Howard M. Eisenberg  
Reg. No. 36,789  
2206 Applewood Court  
Perkasie, PA 18944  
Attorney for Applicant  
Tel: (215) 453-9237

#### CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Box 1450, Alexandria, VA 22313-1450 on March 8, 2004.

Dated: March 8, 2004



Howard M. Eisenberg



<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	10/691,384
				Filing Date	October 22, 2003
				First Named Inventor	Stephen P. Oliver
				Group Art Unit	1653
				Examiner Name	
Sheet	1	of	3	Attorney's Docket No.	HME/7477.0017

U.S. Patent Documents						
Examine r Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YY	Pages, columns, lines where passages or relevant figures appear
		Number Code	Kind			
	AA					
	A B					
	A C					
	A D					
	A E					
	A F					
	A G					
	A H					
	A I					
	A J					
	A K					
	A L					
	AM					
	AN					
	AO					
	AP					
	AQ					
	AR					
	AS					
	AT					

Sheet	2	of	3		Inventor:	Stephen P. Oliver
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FOREIGN PATENT DOCUMENTS								
Examine r Initials	Cite No. <sup>1</sup>	FOREIGN PATENT DOCUMENTS			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YY	Pages, columns, lines where passages or relevant figures appear	T <sup>2</sup>
		Office code	Number	Kind				
	B A		WO 98/21231		Jiang et al	05/22/98		
	B B							
	B C							
	B D							
	B E							
	B F							
	B G							
	B H							
	B I							
	B J							

Examiner Signature		Date Considered	
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<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language translation is attached.

Sheet	3	of	3		Inventor:	Stephen P. Oliver
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OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite <sub>1</sub> No.	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and or country where published	T <sup>2</sup>
	C A	FANG, W et al, "Effects of lactoferrin and milk on adherence of <i>Streptococcus uberis</i> to bovine mammary epithelial cells", Am J Vet Res, 61:275-279 (2000)	
	C B	FANG, W et al, "Protein expression by <i>Streptococcus uberis</i> in co-culture with bovine mammary epithelial cells", FEMS Microbiology Letters, 166:237-242 (1998)	
	C C	FANG, W and OLIVER, SP, "Identification of lactoferrin-binding proteins in bovine mastitis-causing <i>Streptococcus uberis</i> ", FEMS Microbiology Letters, 176:91-96 (1999)	
	C D	GILBERT, FB et al, "Induction of surface-associated proteins of <i>Streptococcus uberis</i> by cultivation with extracellular matrix components and bovine mammary epithelial cells", FEMS Microbiology Letters, 156:161-164 (1997)	
	C E	JIANG, M et al, "A bovine lactoferrin-binding protein of <i>Streptococcus uberis</i> : identification of the protein and characterization of the gene" ABSTRACT B-503, Proceedings of the American Society of Microbiology (ASM), 97th General Meeting, (1997)	
	C F	PARK, HM et al, "Binding of bovine lactoferrin to <i>Streptococcus dysgalactiae</i> subsp. <i>dysgalactiae</i> isolated from cows with mastitis", FEMS Microbiology Letters, 208:35-39 (2002)	
	C G	PARK, HM et al, "Identification of lactoferrin-binding proteins in <i>Streptococcus dysgalactiae</i> subsp. <i>dysgalactiae</i> and <i>Streptococcus agalactiae</i> isolated from cows with mastitis", FEMS Microbiology Letters, 207:87-90 (2002)	
	C H	RAINARD, P, "Binding of bovine lactoferrin to <i>Streptococcus agalactiae</i> ", FEMS Microbiology Letters, 98:235-240 (1992)	
	C I		
	C J		
	C K		

Examiner Signature		Date Considered	
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<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language translation is attached.